

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1-8. (Cancelled)

9. (New) A control unit for a restraint system for firing all connected pyrotechnic firing elements, comprising:

a safety module; and

an interface for receiving a software element which is configured such that as a function of the software element all firing circuits, and a triggering algorithm for firing all the firing circuits, are configured, and sensor values for the safety module are emulated such that the safety module enables all the firing circuits.

10. (New) The control unit according to claim 9, wherein the interface is a CAN bus.

11. (New) The control unit according to claim 9, wherein the interface is a K-line.

12. (New) The control unit according to claim 9, further comprising:

a bus; and

a processor connected via the bus to the safety module and to at least one of (a) at least one sensor module and (b) at least one interface module for a connection of at least one external sensor, the processor emulating sensor values on the bus.

13. (New) The control unit according to claim 12, wherein the bus is a serial peripheral interface bus, the processor being the master and being configured in that the processor transfers the emulated sensor values via a MISO line.

14. (New) The control unit according to claim 13, wherein the MISO line is connected to an I/O port of the processor for transfer of the sensor values.

15. (New) The control unit according to claim 12, wherein the processor contains a boot loader software program that loads and starts the software element.
16. (New) The control unit according to claim 12, further comprising at least one reset switch for restarting the at least one sensor module, the safety module and the firing circuits.